

Message

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**From:** Schlosser, Paul [Schlosser.Paul@epa.gov]  
**Sent:** 7/31/2018 11:49:10 AM  
**To:** Lavoie, Emma [Lavoie.Emma@epa.gov]; Bateson, Thomas [Bateson.Thomas@epa.gov]; Shams, Dahnish [Shams.Dahnish@epa.gov]; Ramasamy, Santhini [Ramasamy.Santhini@epa.gov]; Thayer, Kris [thayer.kris@epa.gov]  
**CC:** Wright, Michael [Wright.Michael@epa.gov]; White, Paul [White.Paul@epa.gov]; Jones, Samantha [Jones.Samantha@epa.gov]; Moore, Alexa [moore.alex@epa.gov]; Lin, Yu-Sheng [Lin.Yu-Sheng@epa.gov]; Brown, James [Brown.James@epa.gov]; Bussard, David [Bussard.David@epa.gov]; Bahadori, Tina [Bahadori.Tina@epa.gov]; Gigot, Carolyn [gigot.carolyn@epa.gov]  
**Subject:** RE: New versions of the Mn IAP and Appendices

Jim was going over edits I made on the PBPK appendix. There were a couple of things we discussed in my office yesterday. So that's **\*almost\*** done!

-Paul

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**From:** Lavoie, Emma  
**Sent:** Monday, July 30, 2018 5:29 PM  
**To:** Bateson, Thomas <Bateson.Thomas@epa.gov>; Shams, Dahnish <Shams.Dahnish@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>  
**Cc:** Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Gigot, Carolyn <gigot.carolyn@epa.gov>  
**Subject:** RE: New versions of the Mn IAP and Appendices

I'm back and will be reading the version in the shared folder tonight/tomorrow.  
Then will set up a call with Bollweg for a v. small group of us.

-Emma

Tel: 202 564 7091

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**From:** Bateson, Thomas  
**Sent:** Monday, July 30, 2018 4:32 PM  
**To:** Shams, Dahnish <Shams.Dahnish@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>  
**Cc:** Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Gigot, Carolyn <gigot.carolyn@epa.gov>  
**Subject:** RE: New versions of the Mn IAP and Appendices

Great!

## Ex. 5 Deliberative Process (DP)

Would that work?

Tom

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**From:** Shams, Dahnish

**Sent:** Monday, July 30, 2018 4:26 PM

**To:** Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Bateson, Thomas <Bateson.Thomas@epa.gov>

**Cc:** Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Gigot, Carolyn <gigot.carolyn@epa.gov>

**Subject:** RE: New versions of the Mn IAP and Appendices

Hi Tom – I think we can help with HERO-izing the document. Just let us know when you have the near final version of the document and when you need it back.

- Dahnish

Integrated Risk Information System (IRIS) Program  
National Center for Environmental Assessment  
Office of Research and Development, U.S. EPA  
O: (202) 564-2758

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**From:** Ramasamy, Santhini

**Sent:** Monday, July 30, 2018 2:04 PM

**To:** Thayer, Kris <thayer.kris@epa.gov>; Bateson, Thomas <Bateson.Thomas@epa.gov>

**Cc:** Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>; Shams, Dahnish <Shams.Dahnish@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>

**Subject:** RE: New versions of the Mn IAP and Appendices

I finished reviewing the Mn IAP. This looks good. I provided a couple of minor clarification edits in the SharePoint version.

## Ex. 5 Deliberative Process (DP)

-Santhini

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**From:** Bahadori, Tina

**Sent:** Monday, July 30, 2018 11:46 AM

**To:** Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Bateson, Thomas <[Bateson.Thomas@epa.gov](mailto:Bateson.Thomas@epa.gov)>  
**Cc:** Wright, Michael <[Wright.Michael@epa.gov](mailto:Wright.Michael@epa.gov)>; White, Paul <[White.Paul@epa.gov](mailto:White.Paul@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Moore, Alexa <[moore.alex@epa.gov](mailto:moore.alex@epa.gov)>; Lin, Yu-Sheng <[Lin.Yu-Sheng@epa.gov](mailto:Lin.Yu-Sheng@epa.gov)>; Ramasamy, Santhini <[Ramasamy.Santhini@epa.gov](mailto:Ramasamy.Santhini@epa.gov)>; Brown, James <[Brown.James@epa.gov](mailto:Brown.James@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>; Shams, Dahnish <[Shams.Dahnish@epa.gov](mailto:Shams.Dahnish@epa.gov)>; Lavoie, Emma <[Lavoie.Emma@epa.gov](mailto:Lavoie.Emma@epa.gov)>  
**Subject:** RE: New versions of the Mn IAP and Appendices

## Ex. 5 Deliberative Process (DP)

**From:** Thayer, Kris  
**Sent:** Monday, July 30, 2018 11:42 AM  
**To:** Bateson, Thomas <[Bateson.Thomas@epa.gov](mailto:Bateson.Thomas@epa.gov)>  
**Cc:** Wright, Michael <[Wright.Michael@epa.gov](mailto:Wright.Michael@epa.gov)>; White, Paul <[White.Paul@epa.gov](mailto:White.Paul@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Moore, Alexa <[moore.alex@epa.gov](mailto:moore.alex@epa.gov)>; Lin, Yu-Sheng <[Lin.Yu-Sheng@epa.gov](mailto:Lin.Yu-Sheng@epa.gov)>; Ramasamy, Santhini <[Ramasamy.Santhini@epa.gov](mailto:Ramasamy.Santhini@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Brown, James <[Brown.James@epa.gov](mailto:Brown.James@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>; Shams, Dahnish <[Shams.Dahnish@epa.gov](mailto:Shams.Dahnish@epa.gov)>; Lavoie, Emma <[Lavoie.Emma@epa.gov](mailto:Lavoie.Emma@epa.gov)>  
**Subject:** RE: New versions of the Mn IAP and Appendices

Re early: I'd be fine to share with them the versions we have now (so, pre-Agency review)

**From:** Bateson, Thomas  
**Sent:** Monday, July 30, 2018 10:48 AM  
**To:** Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Shams, Dahnish <[Shams.Dahnish@epa.gov](mailto:Shams.Dahnish@epa.gov)>  
**Cc:** Lavoie, Emma <[Lavoie.Emma@epa.gov](mailto:Lavoie.Emma@epa.gov)>; Wright, Michael <[Wright.Michael@epa.gov](mailto:Wright.Michael@epa.gov)>; White, Paul <[White.Paul@epa.gov](mailto:White.Paul@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Moore, Alexa <[moore.alex@epa.gov](mailto:moore.alex@epa.gov)>; Lin, Yu-Sheng <[Lin.Yu-Sheng@epa.gov](mailto:Lin.Yu-Sheng@epa.gov)>; Ramasamy, Santhini <[Ramasamy.Santhini@epa.gov](mailto:Ramasamy.Santhini@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Brown, James <[Brown.James@epa.gov](mailto:Brown.James@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>  
**Subject:** RE: New versions of the Mn IAP and Appendices

Hi Kris,

## Ex. 5 Deliberative Process (DP)

What do others think?

Tom

**From:** Thayer, Kris  
**Sent:** Sunday, July 29, 2018 7:47 PM  
**To:** Bateson, Thomas <[Bateson.Thomas@epa.gov](mailto:Bateson.Thomas@epa.gov)>; Shams, Dahnish <[Shams.Dahnish@epa.gov](mailto:Shams.Dahnish@epa.gov)>  
**Cc:** Lavoie, Emma <[Lavoie.Emma@epa.gov](mailto:Lavoie.Emma@epa.gov)>; Wright, Michael <[Wright.Michael@epa.gov](mailto:Wright.Michael@epa.gov)>; White, Paul <[White.Paul@epa.gov](mailto:White.Paul@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Moore, Alexa <[moore.alex@epa.gov](mailto:moore.alex@epa.gov)>; Lin, Yu-Sheng <[Lin.Yu-Sheng@epa.gov](mailto:Lin.Yu-Sheng@epa.gov)>; Ramasamy, Santhini <[Ramasamy.Santhini@epa.gov](mailto:Ramasamy.Santhini@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Brown, James <[Brown.James@epa.gov](mailto:Brown.James@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>;

Schlosser, Paul <Schlosser.Paul@epa.gov>

**Subject:** RE: New versions of the Mn IAP and Appendices

Tom – I did a cross-check against latest version of the IAP and added some more tracked changes. We don't have summary of prior assessment values table, but I don't think that's critical..

Danish – do you think one of the SSCs can HERO-ize the citations?

---

**From:** Bateson, Thomas

**Sent:** Friday, July 27, 2018 6:47 PM

**To:** Thayer, Kris <thayer.kris@epa.gov>

**Cc:** Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>

**Subject:** RE: New versions of the Mn IAP and Appendices

I think we do have time for proofreading by the authors and others. Certainly Emma will want to review it on Monday/Tuesday. We need to make sure that this is exactly what we intend to send. Both the tone and contents have to be correct.

That aside, it would be great if we could get someone (SSC?) to HERO-ize all the citations as that is our standard presentation.

I also had a question about the boilerplate language. There is both a NOTICE and as DISCLAIMER that say just about the same thing. Is there a reason to have both? There probably is, but it seems redundant.

Finally, I'd like to know if we might have strayed in the formatting over the course of multiple authors and revisions. Who is the best person to have check that?

Thanks,  
Tom

---

**From:** Thayer, Kris

**Sent:** Friday, July 27, 2018 5:26 PM

**To:** Bateson, Thomas <Bateson.Thomas@epa.gov>

**Cc:** Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>

**Subject:** RE: New versions of the Mn IAP and Appendices

Thanks Tom – I only had a fairly minor comment on Appendix B...will wait with bated breath to see the response from our Agency partners ☺

---

**From:** Bateson, Thomas

**Sent:** Friday, July 27, 2018 2:10 PM

**To:** Thayer, Kris <thayer.kris@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael <Wright.Michael@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini

<Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>

**Subject:** New versions of the Mn IAP and Appendices

**Importance:** High

We now have clean copies of the revised IAP and all three appendices. All are dated today (07272018).

Please scan through the clean versions to check if your comments were appropriately addressed, and confirm that we are either ready to share this, or if you think something still need attention.

Note that the Appendices have been renamed so that the lit search appendix is now call 'A', the children's sensitivity appendix is now called 'B', and the PK appendix is now called 'C'.

I have also preserved the tracked change version of the IAP which provides some detail on how comments were addressed.

All of these files are in the following top-level Mn folder:

<https://lucerna>

## Ex. 6 Personal Privacy (PP)

The older files are now in the folder for older IAP and attachments.

Thank you for you help!

Tom

---

**From:** Thayer, Kris

**Sent:** Sunday, July 22, 2018 5:33 AM

**To:** Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael <Wright.Michael@epa.gov>; Bateson, Thomas <Bateson.Thomas@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>

**Subject:** Mn Appendix B

Okay, we have a clean version of Appendix B (Appendix B Mn PK July 22, 2018.docx). Well, only one comment to remind us to get a reference for an EPA case report, which I think is fine to keep for this next round of discussion. The prior tracked changed version was moved to the "Older IAP and attachments" folder.

I believe as a next step Emma was going to share the IAP materials with George Bollweg and we'll go from there in gauging reaction and outlining next steps. Fingers crossed.

THANKS everyone for all the work and discussion to get us to this point.

---

**From:** Thayer, Kris

**Sent:** Thursday, July 19, 2018 7:16 AM

**To:** Schlosser, Paul <Schlosser.Paul@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael

<Wright.Michael@epa.gov>; Bateson, Thomas <Bateson.Thomas@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; Bussard, David <Bussard.David@epa.gov>

**Subject:** RE: touch base on Mn

Is it possible for the rest of our PK experts to review appendix B by tomorrow morning? then I can make another pass at accepting changes to clean it up

---

**From:** Schlosser, Paul

**Sent:** Wednesday, July 18, 2018 4:15 PM

**To:** Thayer, Kris <thayer.kris@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael <Wright.Michael@epa.gov>; Bateson, Thomas <Bateson.Thomas@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; **Ex. 6 Personal Privacy (PP)**; Bussard, David <Bussard.David@epa.gov>

**Subject:** RE: touch base on Mn

## Ex. 5 Deliberative Process (DP)

-Paul

---

**From:** Thayer, Kris

**Sent:** Tuesday, July 17, 2018 6:42 AM

**To:** Lavoie, Emma <Lavoie.Emma@epa.gov>; Wright, Michael <Wright.Michael@epa.gov>; Bateson, Thomas <Bateson.Thomas@epa.gov>; White, Paul <White.Paul@epa.gov>; Jones, Samantha <Jones.Samantha@epa.gov>; Moore, Alexa <moore.alex@epa.gov>; Schlosser, Paul <Schlosser.Paul@epa.gov>; Lin, Yu-Sheng <Lin.Yu-Sheng@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Bahadori, Tina <Bahadori.Tina@epa.gov>; Brown, James <Brown.James@epa.gov>; **Ex. 6 Personal Privacy (PP)**; Bussard, David <Bussard.David@epa.gov>

**Subject:** RE: touch base on Mn

Okay, appendix B is available for your viewing pleasure ("Appendix B Mn PK July 17, 2018"; prior versions were moved to the folder "Older IAP and attachments").

There are a number of comments that seem more like technical observations rather than issues that need to be addressed in the current draft. Please address any comments that need addressed or delete the comment. Thanks!

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Everyone should have access to the OneDrive – let me know if you don't. The highlighted documents need to be read by Thursday morning with a "good enough" to share review level. The IAP, Appendix A, and Appendix C can be reviewed now and I'll let you know when Appendix B is ready (should be tomorrow morning).

## Ex. 6 Personal Privacy (PP)

Hopefully we can share the documents by Friday...

Thanks!

Files > Updated Health ... > Manganese 

	Name ▾	Modified ▾	Modified By ▾	File Size ▾	Sharing
	Charge questions and draft pro...	June 13, 2017	Cote, Ila		 Shared
	Current Assessment -working d...	December 22, 2017	Cote, Ila		 Shared
	IRIS Template (latest but dated)	December 19, 2017	Cote, Ila		 Shared
	Older drafts	June 1	Thayer, Kris		 Shared
	Older IAP and attachments	June 11	Thayer, Kris		 Shared
 	Appendix A Comparison of effe...	June 17	Thayer, Kris	46.3 KB	 Shared
 	Appendix B Mn PK June 19, 201...	A few seconds ago	Thayer, Kris	958 KB	 Shared
 	Appendix C Mn Literature Searc...	A few seconds ago	Thayer, Kris	69.7 KB	 Shared
 	Mn IAP 03092018_clean_MW.d...	About a minute ago	Thayer, Kris	141 KB	 Shared

Drag files here to upload

-----Original Appointment-----

**From:** Thayer, Kris

**Sent:** Monday, July 9, 2018 1:31 PM

**To:** Thayer, Kris; Lavoie, Emma; Wright, Michael; Bateson, Thomas; White, Paul; Jones, Samantha; Moore, Alexa; Schlosser, Paul; Lin, Yu-Sheng; Ramasamy, Santhini; Bahadori, Tina; Brown, James

**Cc:** Ex. 6 Personal Privacy (PP) Bussard, David

**Subject:** touch base on Mn

**When:** Monday, July 16, 2018 2:00 PM-2:45 PM (UTC-05:00) Eastern Time (US & Canada).

**Where:** Skype Meeting

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